

REP - Repressurize  
 DEP - Depressurize  
 Pressure [psig]

# Nitrogen Concentrator

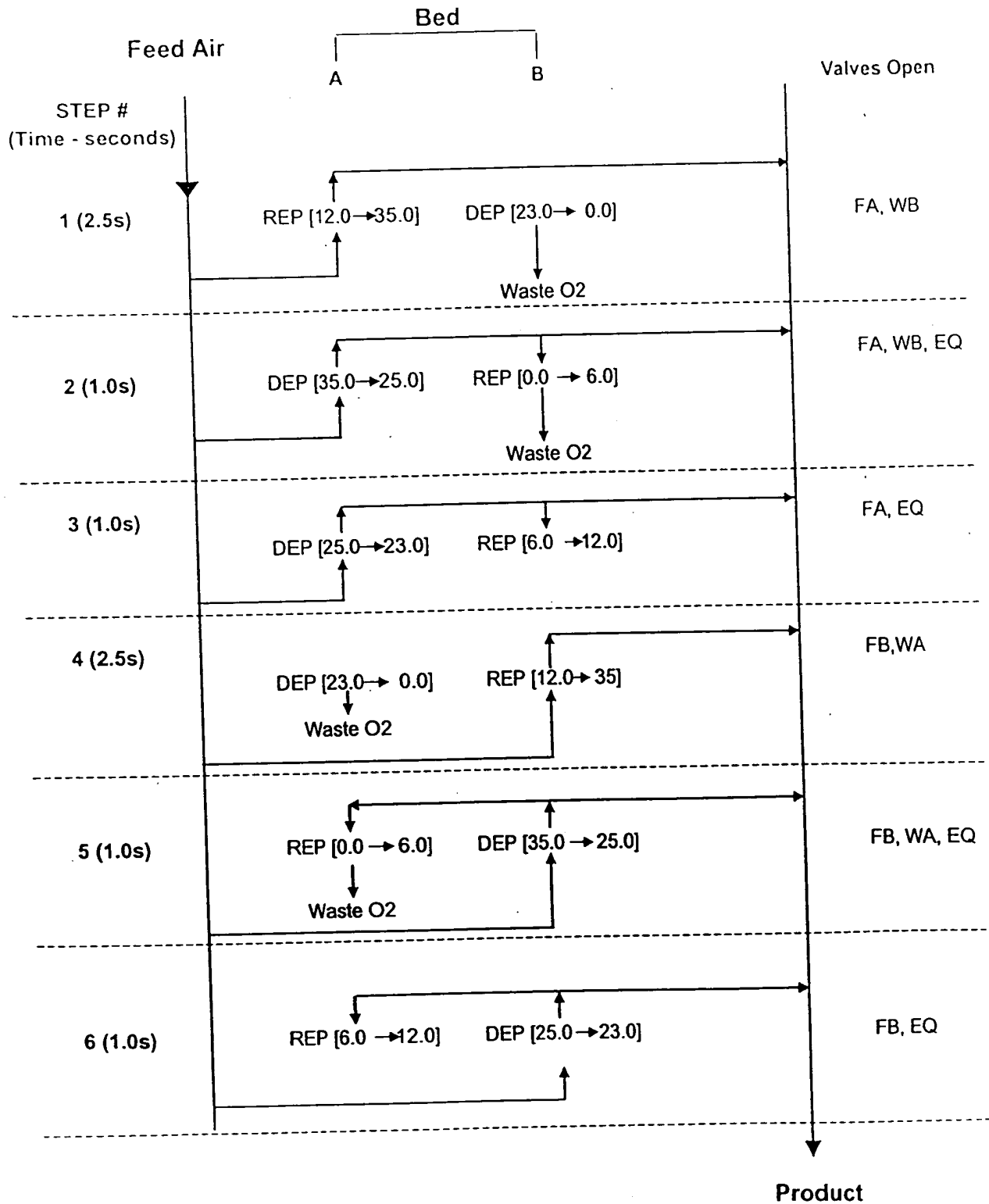


FIG. 2

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McCombs et al.  
PORTABLE HYPOXIC APPARATUS

Serial No. To be Assigned  
Docket No. 01190.173901US

Sheet 3 of 6

**LEGEND**

1. SUCTION RESONATOR
2. FEED AIR COMPRESSOR
3. RELIEF VALVE
4. HEAT EXCHANGER
5. HIGH PRESSURE SWITCH
6. PRESSURE TEST PORT
7. LEFT FEED VALVE
8. LEFT WASTE VALVE
9. RIGHT WASTE VALVE
10. RIGHT WASTE VALVE
11. EXHAUST MUFFLER (NITROGEN)
12. EQUALIZATION VALVE
13. LEFT PURGE ORIFICE
14. RIGHT PURGE ORIFICE
15. PRODUCT TANK (2)
16. LOW PRESSURE SWITCH
17. PRESSURE REGULATOR (2)
18. PRODUCT RESTRICTOR (2)
19. O<sub>2</sub> ENRICHED GAS FLOWMETER
20. O<sub>2</sub> ENRICHED GAS FLOW CONTROLLER
21. N<sub>2</sub> ENRICHED GAS FLOWMETER
22. N<sub>2</sub> ENRICHED GAS FLOW CONTROLLER
23. BACK PRESSURE REGULATOR (OPEN FOR O<sub>2</sub> ENRICHED PRODUCT) (2)
24. SOLENOID VALVE (OPEN FOR N<sub>2</sub> ENRICHED PRODUCT)
25. EXHAUST MUFFLER (OXYGEN)
26. EXHAUST MUFFLER (OXYGEN)
27. EXHAUST MUFFLER (OXYGEN)

**PROCESS SCHEMATIC**

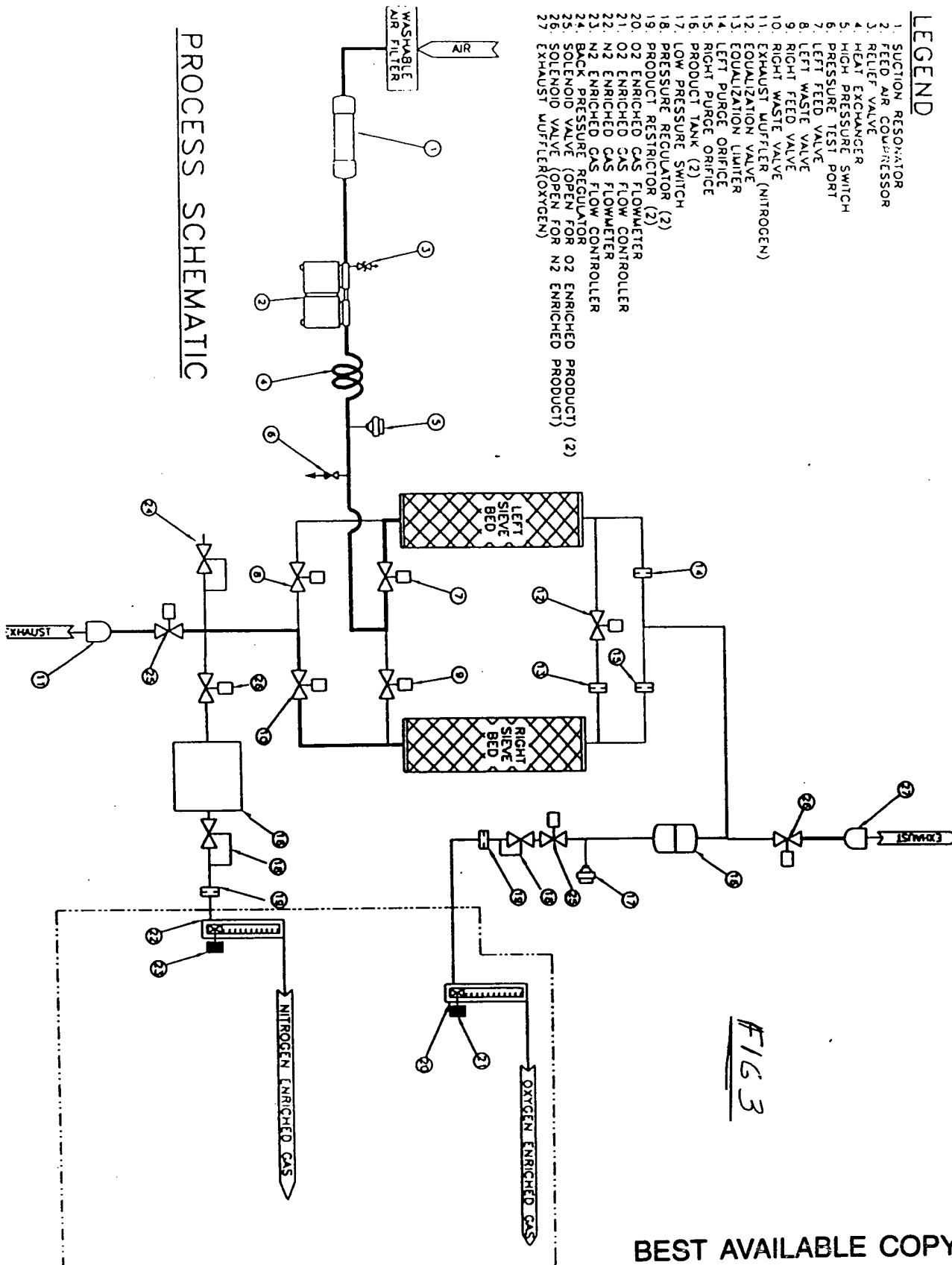
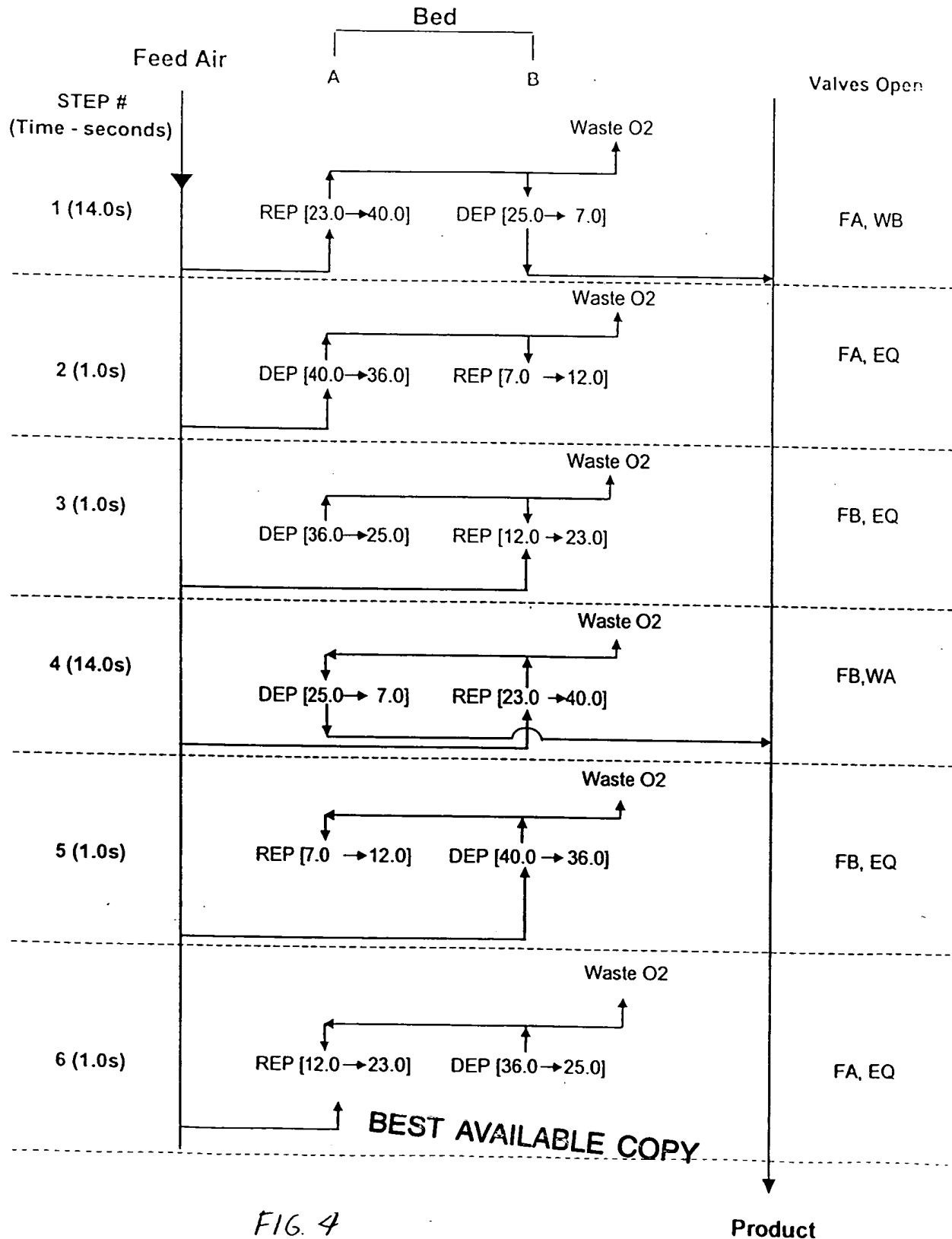




FIG. 3A

REP - Repressurize  
 DEP - Depressurize  
 Pressure [psig]

### Combination unit - Nitrogen Product



REP - Repressurize  
 DEP - Depressurize  
 Pressure [psig]

### Combination unit - Oxygen Product

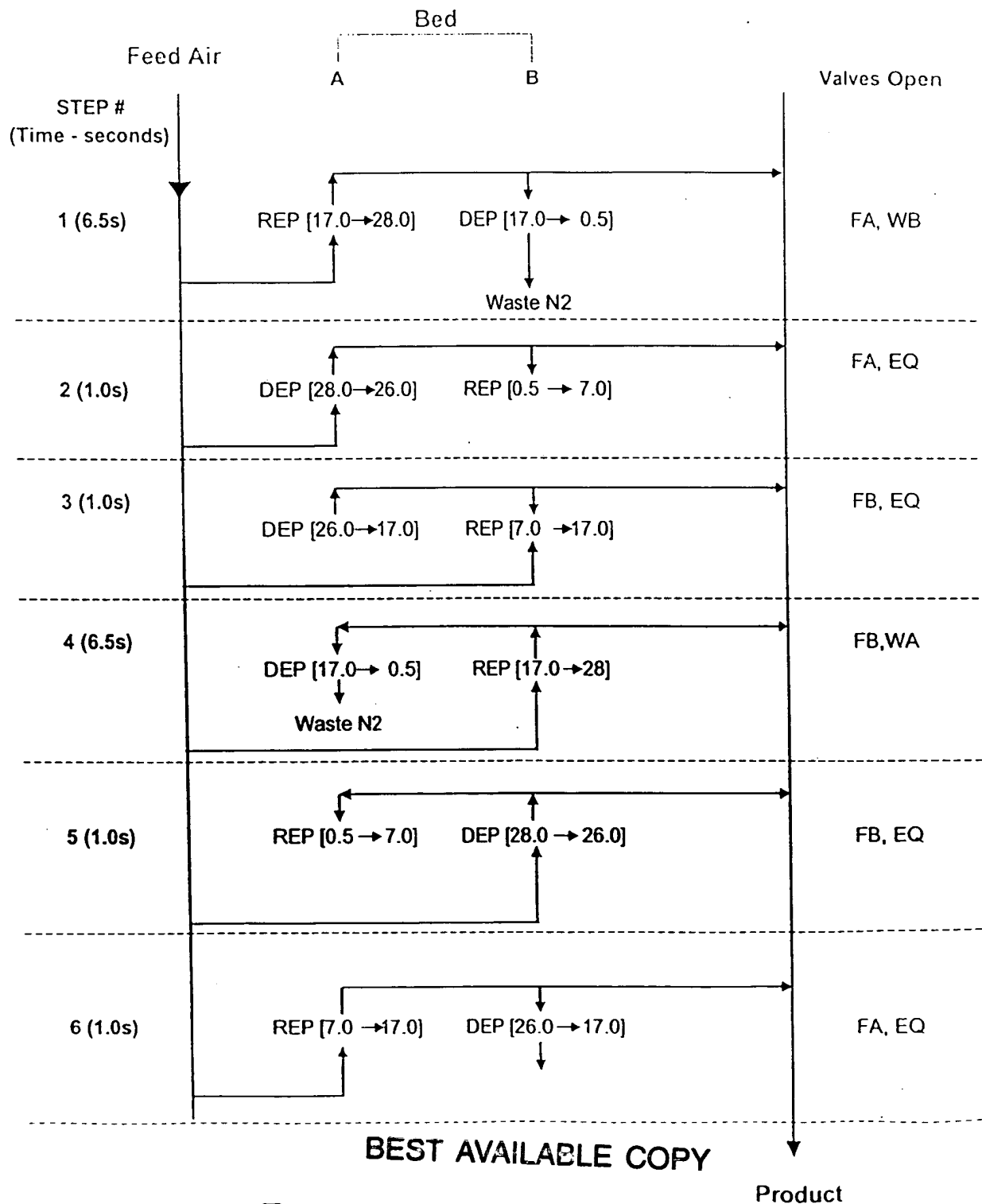


FIG. 5